

IN THE SPECIFICATION

Please insert the following headings at page 1, between lines 1 and 2, as follows:

BACKGROUND OF THE INVENTION

FIELD OF THE INVENTION

Please insert the following heading at page 1, between lines 4 and 5, as follows:

DISCUSSION OF THE BACKGROUND

Please replace the paragraph at page 1, lines 5-13, with the following rewritten paragraph:

In a mobile telecommunication system, base station transmits signals to mobile terminals and receives ~~them~~ signals from ~~them~~ the mobile terminals. The transmission channels from the base station to the mobile terminals are called downlink channels and conversely the transmission channels from the mobile terminals to the base station are called uplink channels. Each transmission channel, uplink or downlink, comprises a variety of paths between a transmitter and a receiver, each path being characterised by a delay, a direction of arrival, an attenuation and a phase rotation. The effect of the attenuation and phase rotation can be modelled simply by a complex multiplicative coefficient characteristic of the path.

Please replace the paragraph at page 1, lines 14-25, with the following rewritten paragraph:

It is known that an array of ~~antenna~~ antennae can be used for forming beams and/or for cancelling interference in one or more directions. The antenna processing consists of a weighting of the outputs of the different antennae by complex coefficients followed by an adding of the weighted outputs, the coefficients being chosen so as to obtain the required equivalent antenna diagram. It is thus possible to form a beam in the directions of arrival of

the useful signal whilst placing zeros in the directions of arrival of the interfering signals. Beam formation (also referred to as channel formation), has been applied to mobile telephony, notably in order to direct a reception beam from a base station to a mobile terminal (up link). The base station is then equipped with an adaptive antenna (referred to as an "intelligent antenna") capable of pointing in the directions of arrival of the paths of propagation of a signal transmitted by a mobile terminal.

Please insert the following heading at page 2, between lines 23 and 24, as follows:

#### SUMMARY OF THE INVENTION

Please insert the following heading at page 4, between lines 3 and 4, as follows:

#### BRIEF DESCRIPTION OF THE FIGURES

Please insert the following heading at page 4, between lines 10 and 11, as follows:

#### DESCRIPTION OF THE PREFERRED EMBODIMENTS

Please cancel the original Abstract at page 11, lines 1-10 in its entirety and insert therefor the following substitute Abstract on a separate sheet as follows: